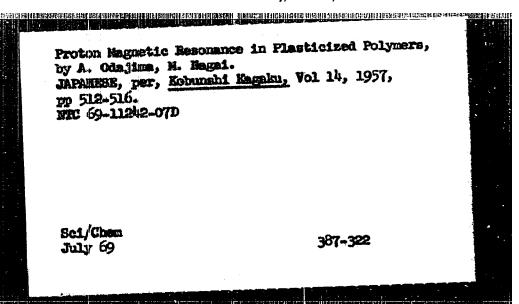
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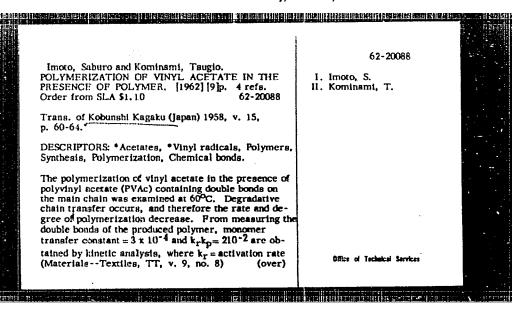
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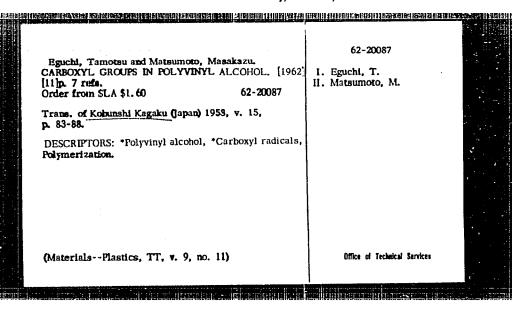
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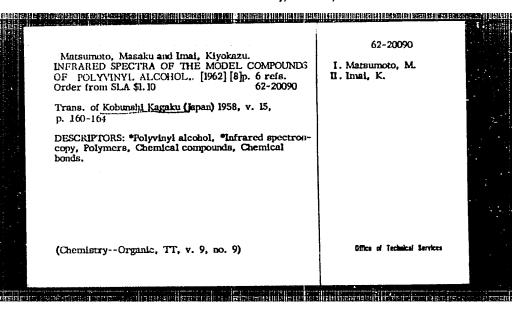
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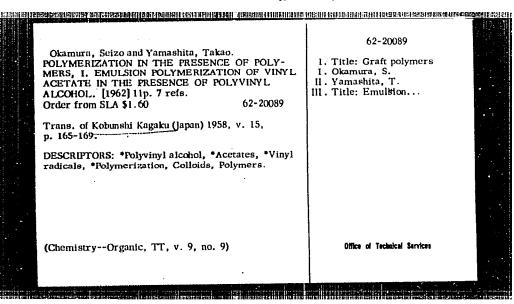
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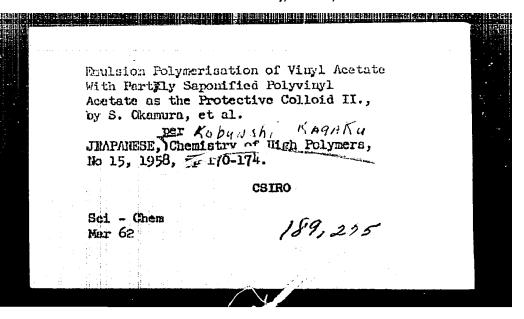
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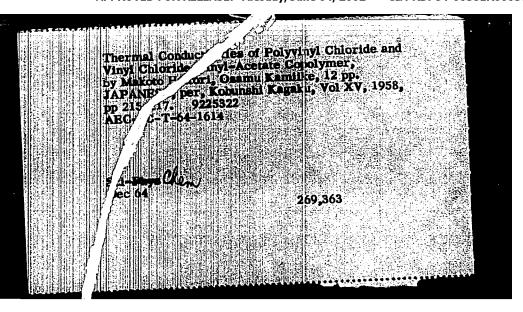












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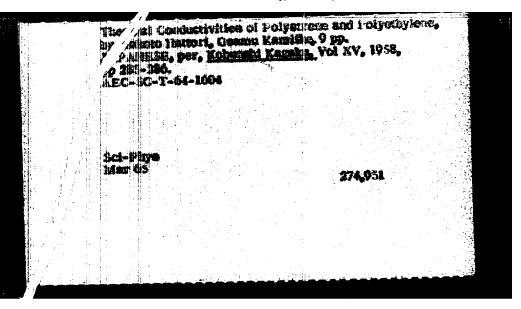
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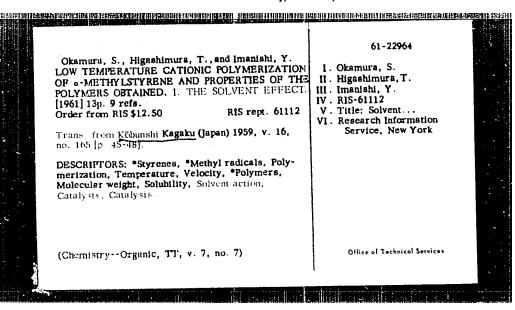
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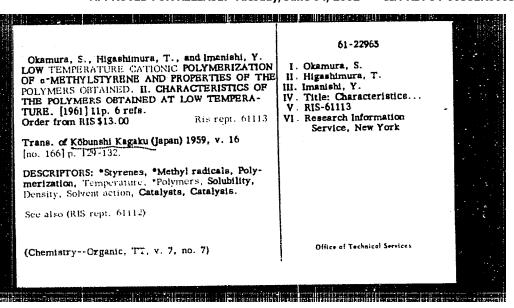
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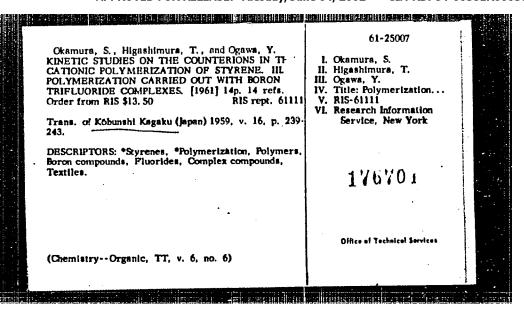
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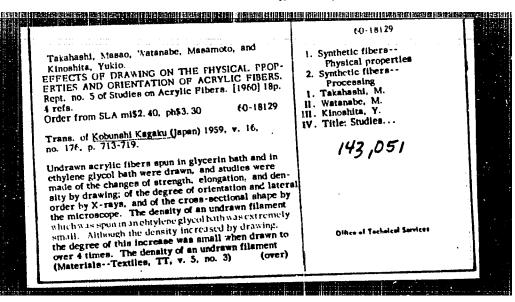
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CROSSLINKING OF POLYACRYLONITRILE PIBER BY IRRADIATION WITH ELECTRON RAYS. Rept. no. 6 of Studies on Acrylic Pibers. [1960] 13p. 7 refs.
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The effects of irradiation by high speed electrons induced from "Van de Graaff" on the swelling properties of polyacrylonitrile monofilaments were investigated. The experimental relationship between sol fraction and radiation dose shows good agreement with that required by A. Charlesby's theory (J. Polymer Sci. 11: 513, 1953). The ratio of degradation to crosslinking occurring by irradiation was about 40%. The crosslinking occurring by irradiation was about 40%. The crosslinking acrylonitrile were also studied as a function of cross-(Materials--Textiles, TT, v. 5, no. 3) (over)

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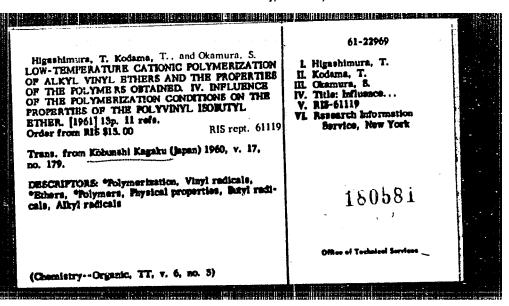
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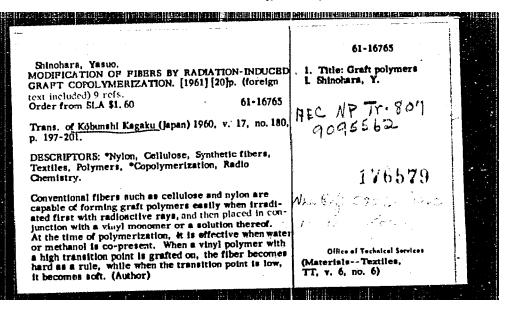
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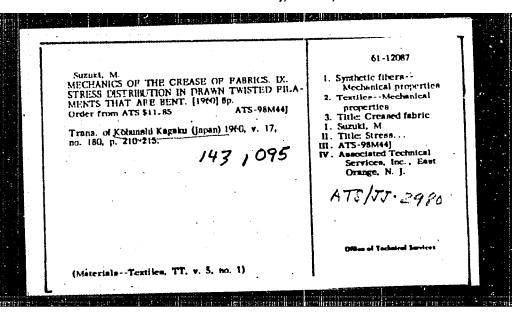
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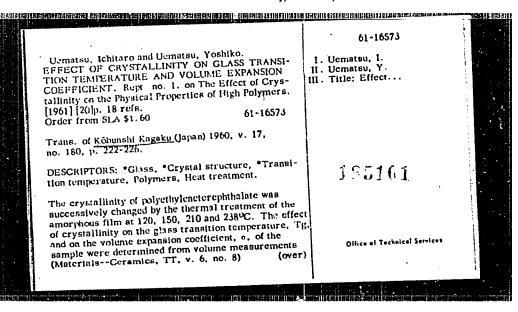
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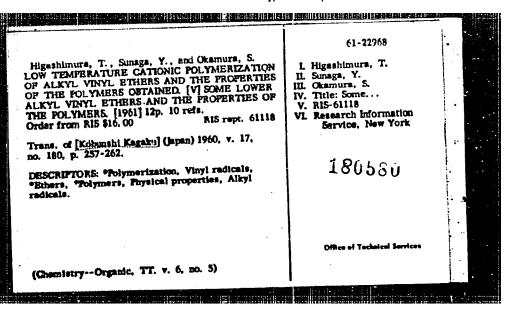


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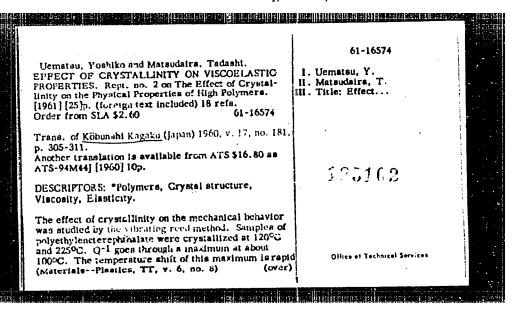
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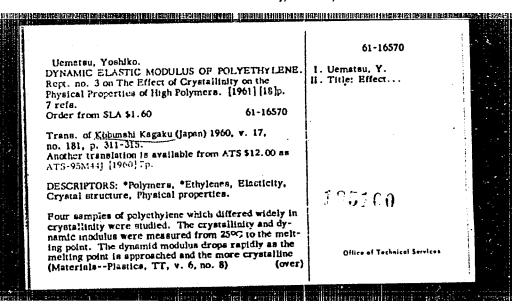
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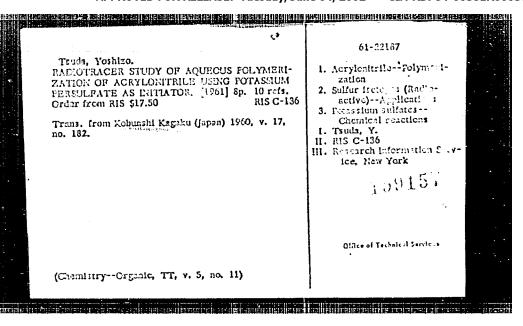
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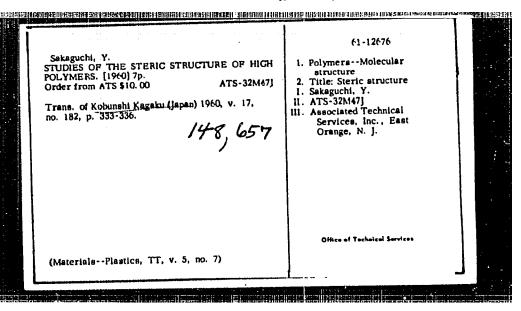
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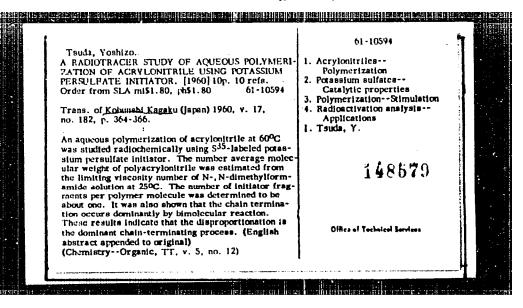
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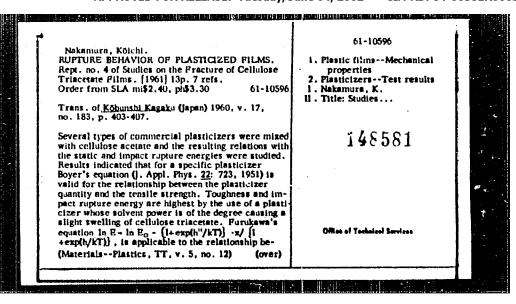
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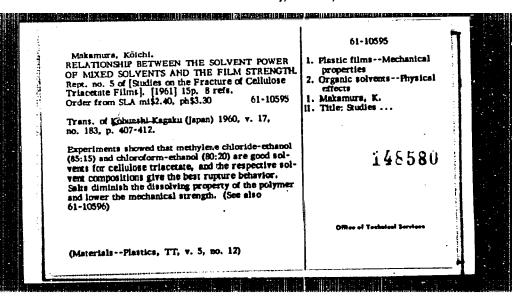


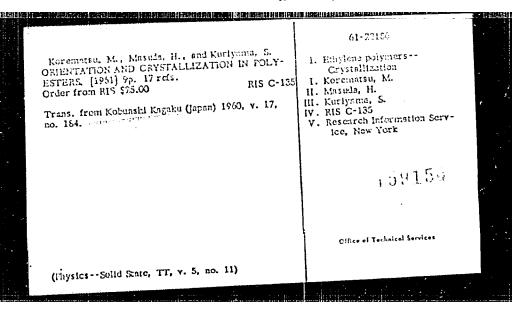


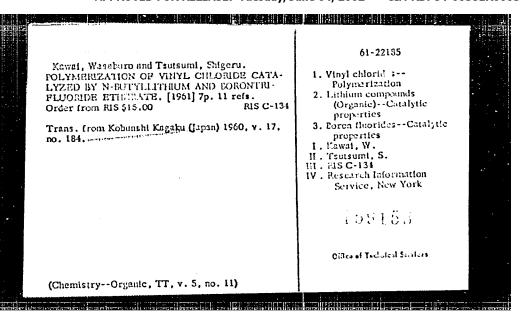


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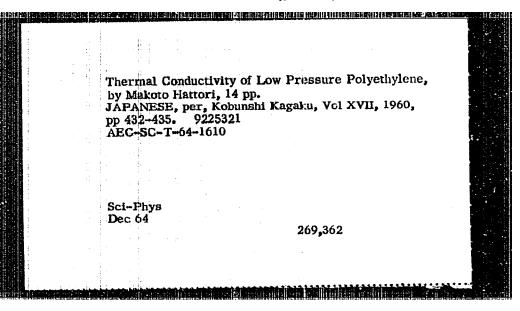
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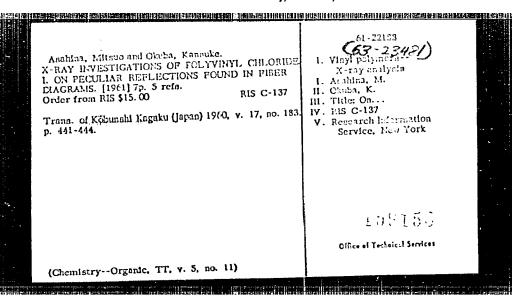
Changes Undergone by Polyanides on Heating at High Temperatures. II - Kinetic Treatment, by Y. Matsuda.

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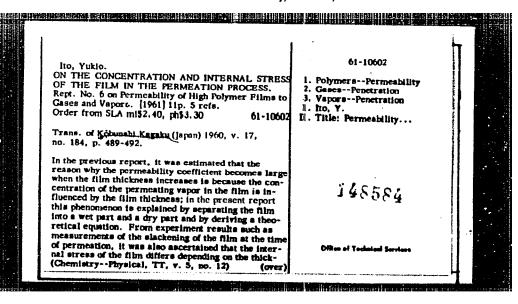
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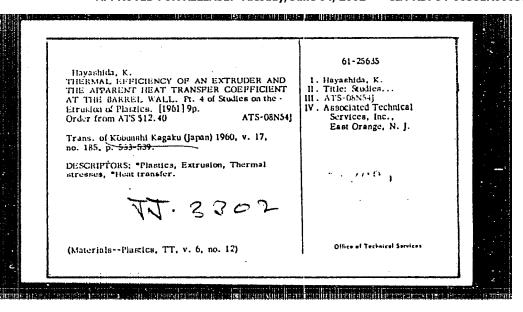




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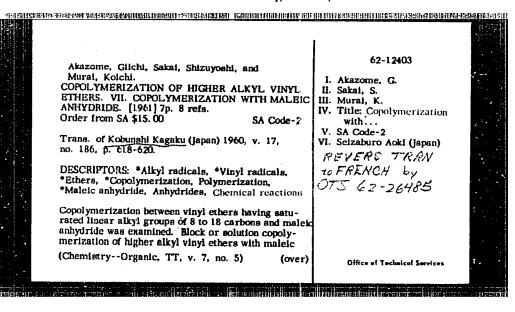


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Chloride, by M. Asahina, K. Okuda.
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Vol XVII, 1960, pp 441-444; 607-611;
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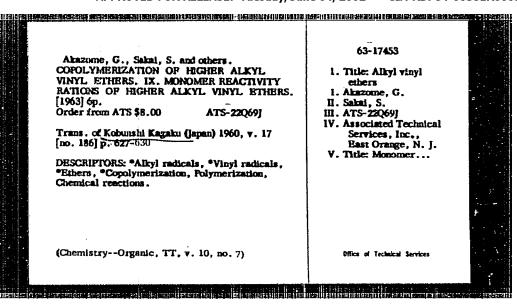
Akazome, Gitchi, Sakai, Shizuyoshi, and Murai, Köichi.

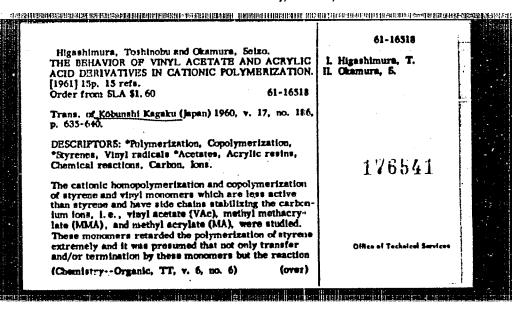
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Order from SLA \$1.60

Trans. of Köhmshi Kagaku (Japan) 1960, v. 17, no. 186, p. 621-627.

DESCRIPTORS: *Folymers, Synthesis *Copolymertzation, Mechanical properties, *Vinyl alcohol, Vinyl radicals, Acetates, Ethers.

Copolymers of higher alkyl (from octyl to octadecyl) vinyl ethers with vinyl scetate were prepared by bulk polymerization at about 10% conversion, and the polymers produced were saponified to polyvinyl alcohols containing some alkoxy groups. The alkoxy groups in copolymers are not affected by saponification. The copolymers are not affected by saponification. The copolymers with vinyl alcohol (VA) are insoluble in his (Chemistry--Organic, TT, v. 6, no. 6) (over)





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BLOCK-COPOLYMERIZATION BY METALLIC SODRUM. I. BLOCK-COPOLYMERIZATION OF STYRENE AND a-METHYL STYRENE. [1961] 5p. 6 refs.

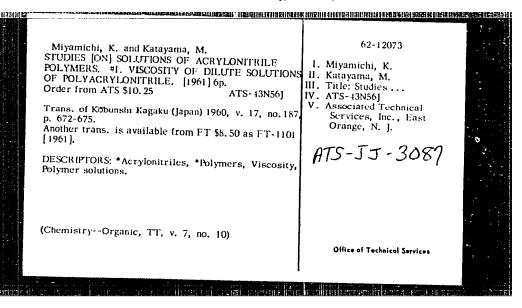
Order from SA \$15.00 SA Code-7

Trans. of Köbunshi Kagaku (Ispan) 1960, v. 17, no. 186, p. 641-643;

DESCRIPTORS: *Styrenes, *Methyl radicals, Copolymerization, Polymerization, Sodium, Catalysts, Catalysis, Polymers.

(Chemistry--Organic, TT, v. 7, no. 5)

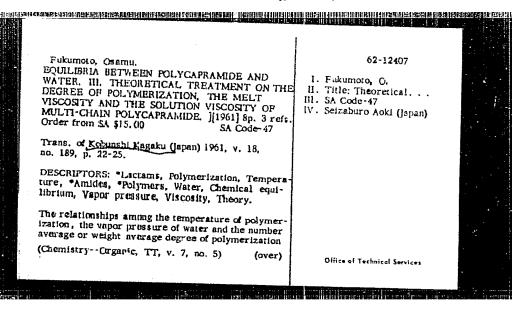
Office of Techsical Services

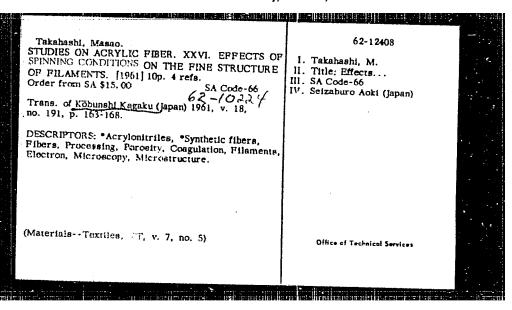


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Part IX. The Change in the Infrared Spectrum of Heat-Treated Nylon 6 After Deuteration, by A. Koshimo.

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NTC 71-13608-11E





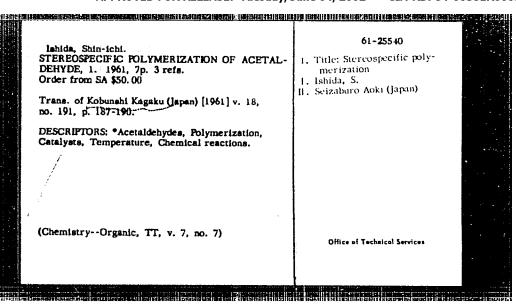
Minematsu, Yolchi and Yamada, Taizo.
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AND THE EFFECT OF STABILIZERS. Rept.
no. 11 of the Effect of Light on Polyvinyl Chloride.
[1962] 15p. 16 refs.
Order from SLA \$1.60 62-10701

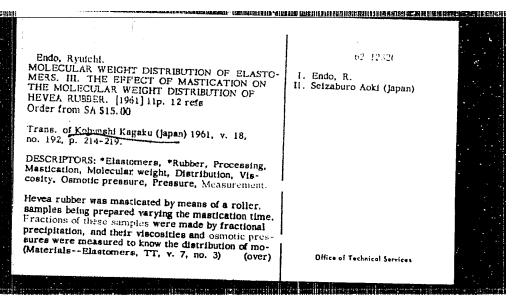
Trans. of Kobunshi Kagaku (Japan) 1961, v. 18,
no. 191, p. 175-182.

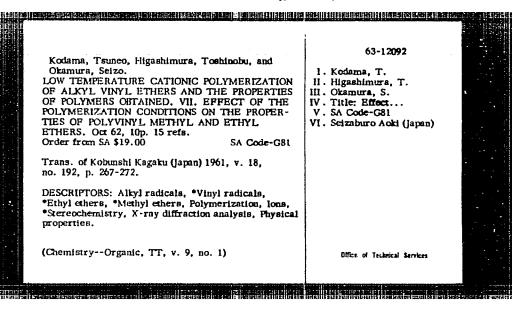
DESCRIPTORS: *Vanyl chlorides, Polymers, *Photolysis, Stabilization.

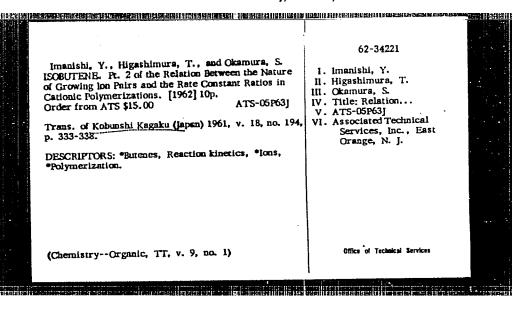
The effect of stabilizers on the weatherometer photodegradation (in air) of PVC was studied. In order to dissolve and disperse the stabilizers uniformly in the PVC by the solution method, chlorostearates and 2-ethylhoxanoates were compounded as the stabilizers, and dibutyl Sn system stabilizers too were used. By (Engineering--Chemical, TT, v. 8, no. 9) (over)

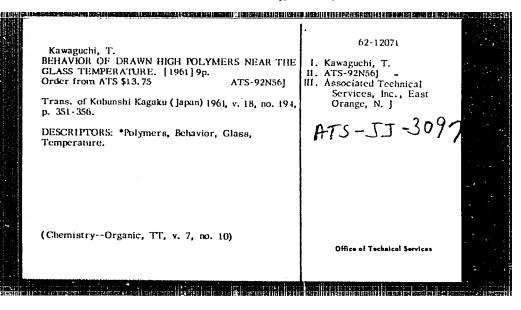
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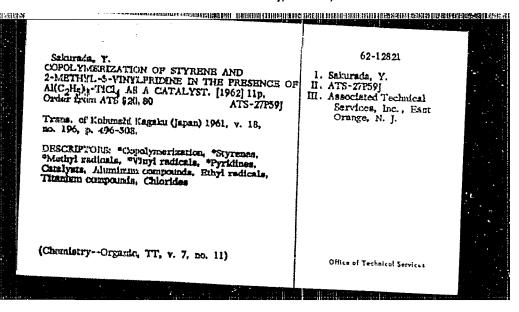
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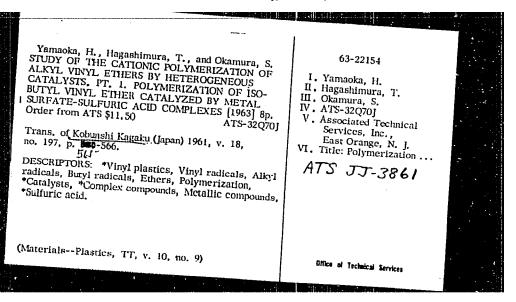
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Fujisaki, Yoshisato.

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Order from SLA \$1.60 62-18041

Trans. of Kohunshi Kagaku (Japan) 1961, v. 18, no. 198, p. 589-595.

DESCRIPTORS: Synthetic fibers, *Plastics, Polymers, *Acrylonitriles, *Molecular weight, Drawing (Machine processing), Coagulation, Nitric acid.

In order to study the effects of molecular weight the drawing properties of coagulated threads of polyacrylonitrile was prepared by the suspension polymerization method (Materials--Textiles, TT, v. 8, no. 9) (over)

Office of Technical Services

Takahashi, Masao.

MODEL-WISE OBSERVATION OF DESOLVATION IN THE SPINNING BATH. Rept. 35 of Studies on Acrylic Fiber. [1962] 8p. 1 ref.
Order from SLA \$1.10 62-18036

Trans. of Kobunshi Kagaku (Japan) 1961, v. 18, no. 198, p. 605-608.

DESCRIPTORS: *Acrylonitriles, *Synthetic fibers, Fibers, Processing, Filaments.

The desolvation process of formed filaments in solventwater system spinning bath was observed. The composition of the swelling liquid changed gradually and approached the composition of the steeping bath. The apparent diffusion coefficient of desolvation at this time, kg, was sensitive to the coagulant structure, and it was possible to evaluate the coagulation process and the structure of the filaments from this value. The (Materials--Textiles, TT, v. 8, no. 8) (over)

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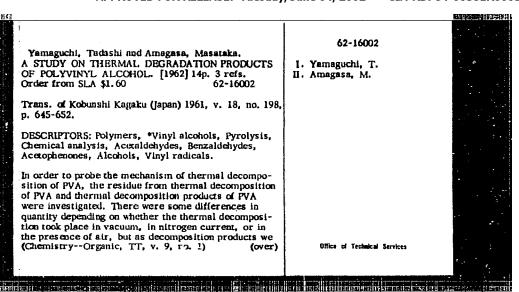
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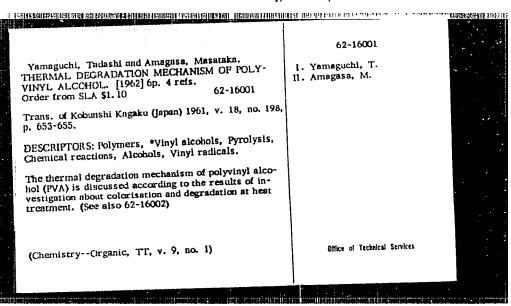
Yamaguchi, Tadashi and Amagasa, Masataka. A STUDY ON THERMAL DEGRADATION PRODUCTS OF POLYVINYL ALCOHOL. [1962] 14p. 3 refs. Order from SLA \$1.60 62-16002

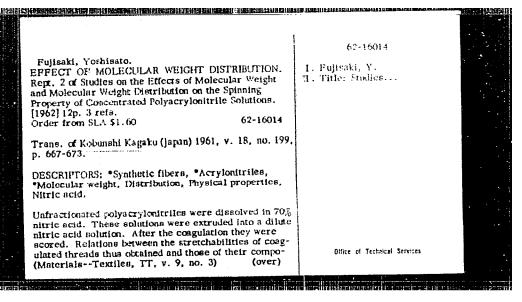
Trans. of Kobunshi Kagaku (Japan) 1961, v. 18, no. 198, p. 645-652.

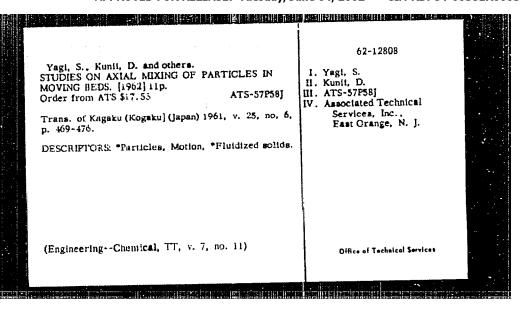
DESCRIPTORS: Polymers, *Vinyl alcohols, Pyrolysis, Chemical analysis, Acetaldehydes, Benzaldehydes, Acetophenones, Alcohols, Vinyl radicals.

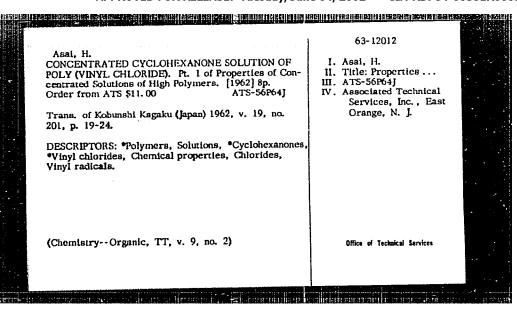
In order to probe the mechanism of thermal decomposition of PVA, the residue from thermal decomposition of PVA and thermal decomposition products of PVA were investigated. There were some differences in quantity depending on whether the thermal decomposition took place in vacuum, in nitrogen current, or in the presence of air, but as decomposition products we (Chemistry--Organic, TT, v. 9, r2. 1) (over) (over)











Fractionation of Polyacrylonitrile. III. Fractional Precipitation in the Dimethyl Sulfoxide-Toluene System (Introductory Paragraphs Omitted), by Y. Fujisaki.

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JAPANESE, per, Kobunshi Kagaku. Vol XIX, No 201, 1962, pp 49-56.

Possibly to Campe From Contacts per 10 Dec 62 memo USIB INTERNAL USE ONLY

Sci - Chem Dec 62

V. Precipitation Fractionation of Polyacrylonitrile (Introductory Paragraphs Omitted), by Y. Fujisaki.

JAPANESE, per, Kobunshi Kagaku, Vol XIX, No 201, 1962, pp 64-72.

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Dec 62

Study on Polyacrylonitrile Solution. II. Molecular ME Weight Dependence of Intrinsic Viscosity, Secon Virial Coefficient and end-to-end Distance of the Polymer Chain, (Introductory Paragraphs Omitted), by J. Jujisaki.

Kobunski Kagaku,
JAPANESE, per, KNEMISKEYKEKKEIGHX HYPERK, Vol XIX,
No 201, 1962, pp 73-80.

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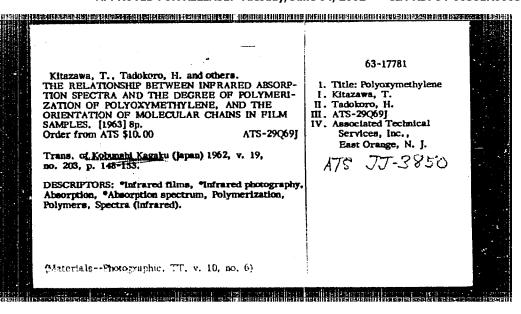
Sci - Chem Dec 62

III. Intrinsic Viscosity-Temperature Relationships for Polyacrylonitrile in Various Solvents, by Y. Fujisaki.

JAPANESE, per, Kobunshi Kagaku, Vol XIX, No 201, 1962, pp 81-93.

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Sci - Chem Dec 62



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CIA-RDP84-00581R000301080006-0

Preparation of Eleckoopolymer of Polymeinetriazole and Polymerylomitrile, by Y. Iwakura.

JAPANESE, per, Estemski Kagaku, Vol XIK, No 203, 1962, pp 161-165.

MLL Haf: 5828.4 1962 (10089) (Lean)

Sei - 238, 375

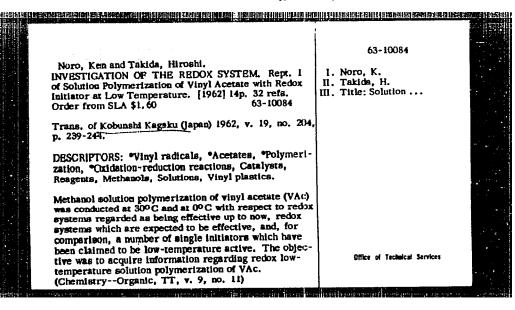
Iodine Prestment of Hylon 6. II. Change in Infra
Red Epectrum of Hylon 6 by Iodine Trestment, by
H. Ardmeto.

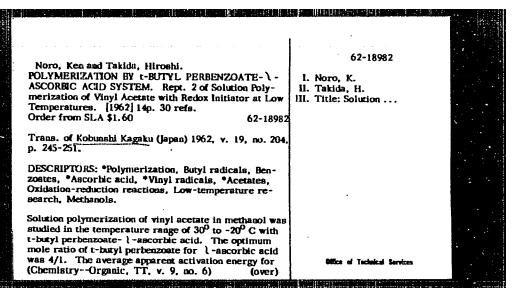
JAPANESE, par, Kobsmshi Kogaku, Vol XIX, No 204,
1962, pp 805-211.

ELL Haf: 5828.4 1962 (10108)
(Local)

238,372

Soi - M/K
Jul 63





Noro, Ken and Takida, Hiroshi.

STUDIES ON POLYVINYL ALCOHOL.. Rept. 3 of Solution Polymerization of Vinyl Acetate with Redox Initiator at Low Temperatures. [1962] 9p. 11 refs.
Order from SLA \$1.10

Trans. of Kobunshi Kagaku (Japan) 1962, v. 19, no. 204, p. 251-255.

DESCRIPTORS: *Polyvinyl alcohol, *Polymerization, *Acetates, *Vinyl radicals, *Oxidation-reduction reactions, Infrared spectroscopy, Ultraviolet spectroscopy, Low-temperature research.

Properties of polyvinyl alcohol derived from polyvinyl acetate which was polymerized in methanol with t-butyl-1-ascorbic acid redox initiator at low temperatures were studied. It was found that the equilibrium degree of swelling and densities of PVA films obtained at various temperatures had not significant difference but the (Chemistry--Organic, TT, v. 9, no. 6)

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